Parts Management Plan Builder 24 OCT 07

U.S. Army Materiel Command

Motivation

- In preparing for battle I have always found that plans are useless, but planning is indispensable.
  - *Dwight D. Eisenhower*

- A good plan, violently executed now, is better than a perfect plan next week.
  - *George S. Patton*

What is SYSPARS?

A web-enabled expert system assistant for:

- **Preparing program planning documents**
- **Updating program plans**
- **Evaluating programs**
- **Making decisions**
- **Obtaining guidance**
- **Enforcing Planning Process**

A Brief History

1984 GAO Study
"… the Army has the best ILS policy, but the worst execution."

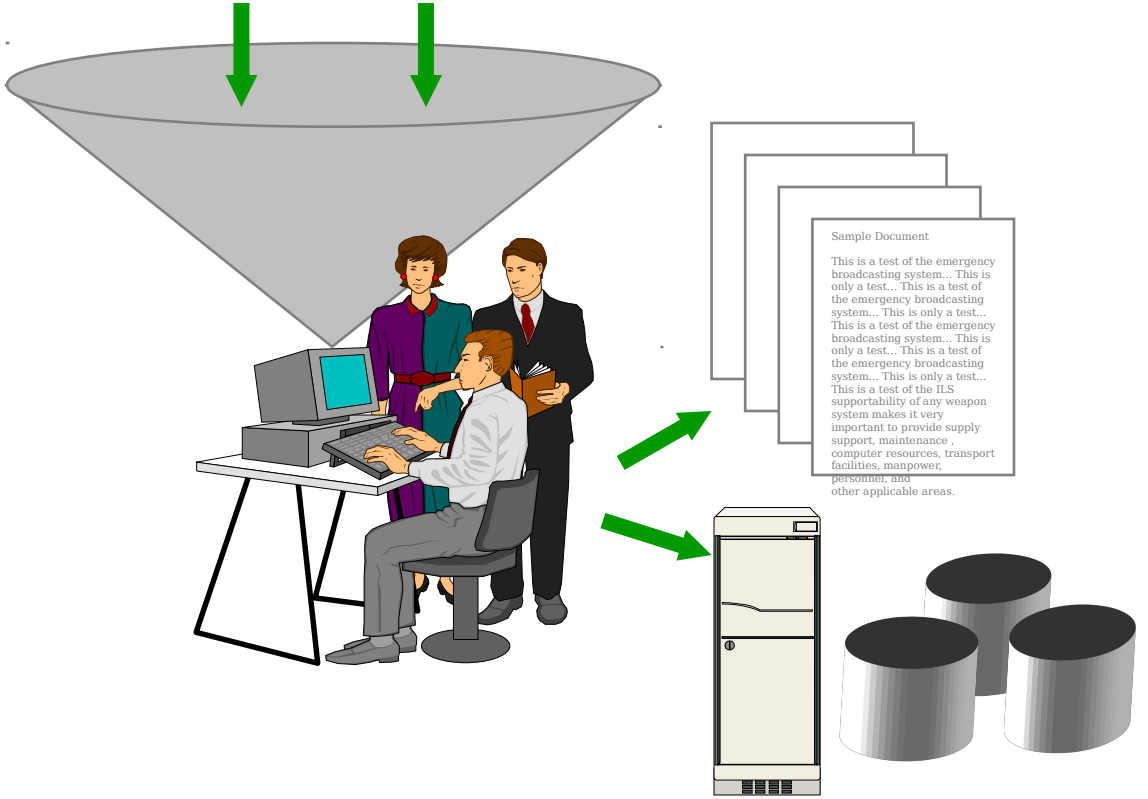
1989 Version 1
Began to institutionalize ILS policy in an ILS Planning Knowledge Base.
Generated ILSP and Warranty information based on current regulations and policy.

1989 - 1994 Continuous Enhancements
New documents were added: SOW, MFP, Transportability Report, etc.
Adapted for other services: Navy, Air Force, Marine Corps, FAA, etc.

Now
Continues to be updated to accommodate the latest regulations, policy and procedures that exist in the area of Life Cycle planning.
Leverages the latest software application technologies. (e.g. Java, HTML)

How does it work?

Latest Policy
Training Information
Lessons Learned
Expert Knowledge/Experience


Sample Document
This is a test of the emergency broadcasting system... This is only a test... This is a test of the emergency broadcasting system... This is only a test... This is a test of the emergency broadcasting system... This is only a test... This is a test of the emergency broadcasting system... This is only a test... This is a test of the ILS supportability of any weapon system makes it very important to provide supply support, maintenance , computer resources, transport facilities, manpower, personnel, and other applicable areas.

SYSPARS
Integrated Documents

- Acquisition Strategy
- PBL Strategy
- Performance Based Agreem
- Systems Engineering Plan
- DMSMS Management Plan
- Test and Evaluation Master
- Supportability Strategy
- Materiel Fielding Plan
- Provisioning Plan
- ILS Statement of Work
- Transportability Report
- and more…

Who's using it?

- **Over 1325 Registered Users**
  - **Integrated Logistics Support Managers**
  - **Project/Program/Product Managers**
  - **Integrated Product Team Members**
  - **Matrix Support Managers**
  - **Support Contractors**
  - **Systems Engineers**
  - **Etc.**

Adaptations

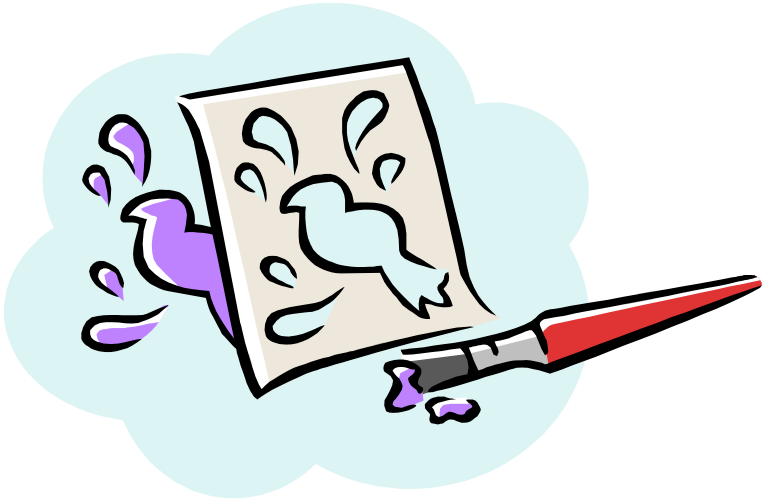
- SYSPARS – Army (Over 600) Navy (278), Air Force (108), Marine Corps (56)
- Non Supported Versions- Navy, Air Force, Marine Corps
- Integrated Logistics Assessment Tool - Navy
- Supportability Engineering Planning Tool - NASA
- Through Life Support Planning System - Australian Defense Force
- Environmental Impact of Water Projects - Department of Agriculture

SYSPARS Benefits

- Reduced time to prepare plans
- High quality planning decisions & documents
- Tailored for individual program strategies
  - Service issues, Acq Phase, Type Acq
- Supports electronic staffing and review
- Training tool (DAU and on-the-job)
- Minimizes costly requirements omission/ duplication
- Easy to expand, enhance, & update the knowledge base

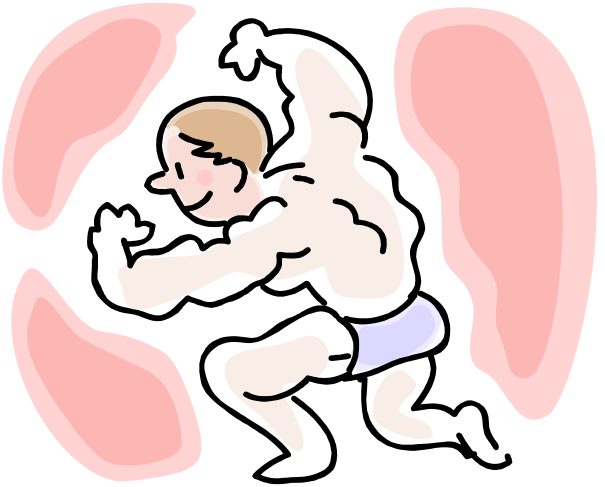
Exceeds Template Capabilities

- **Consistency warnings**
- **Dynamic answer lists**
- **Dynamic text insertion**
- **Extensive derivation logic**
- **Accommodates intricate conditional logic**



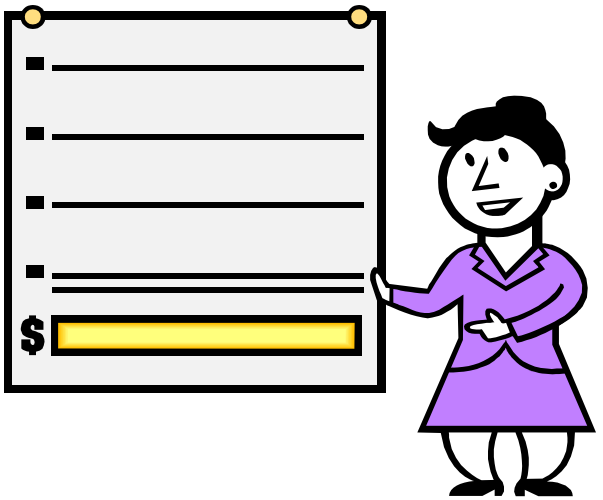
Powerful Capability

- **Model and improve your business processes**
- **Develop your modules locally**
  - Unlimited number of users
  - Unlimited number of modules
  - Apply to any functional area
  - No programming experience required
- **Easy to enhance and modify**
- **Integrated Data Environment**



Bottom Line

- Proven technology
- Web-based software
- No software licenses
- Minimal cost to customize
- Continuous state-of-the-art improvements

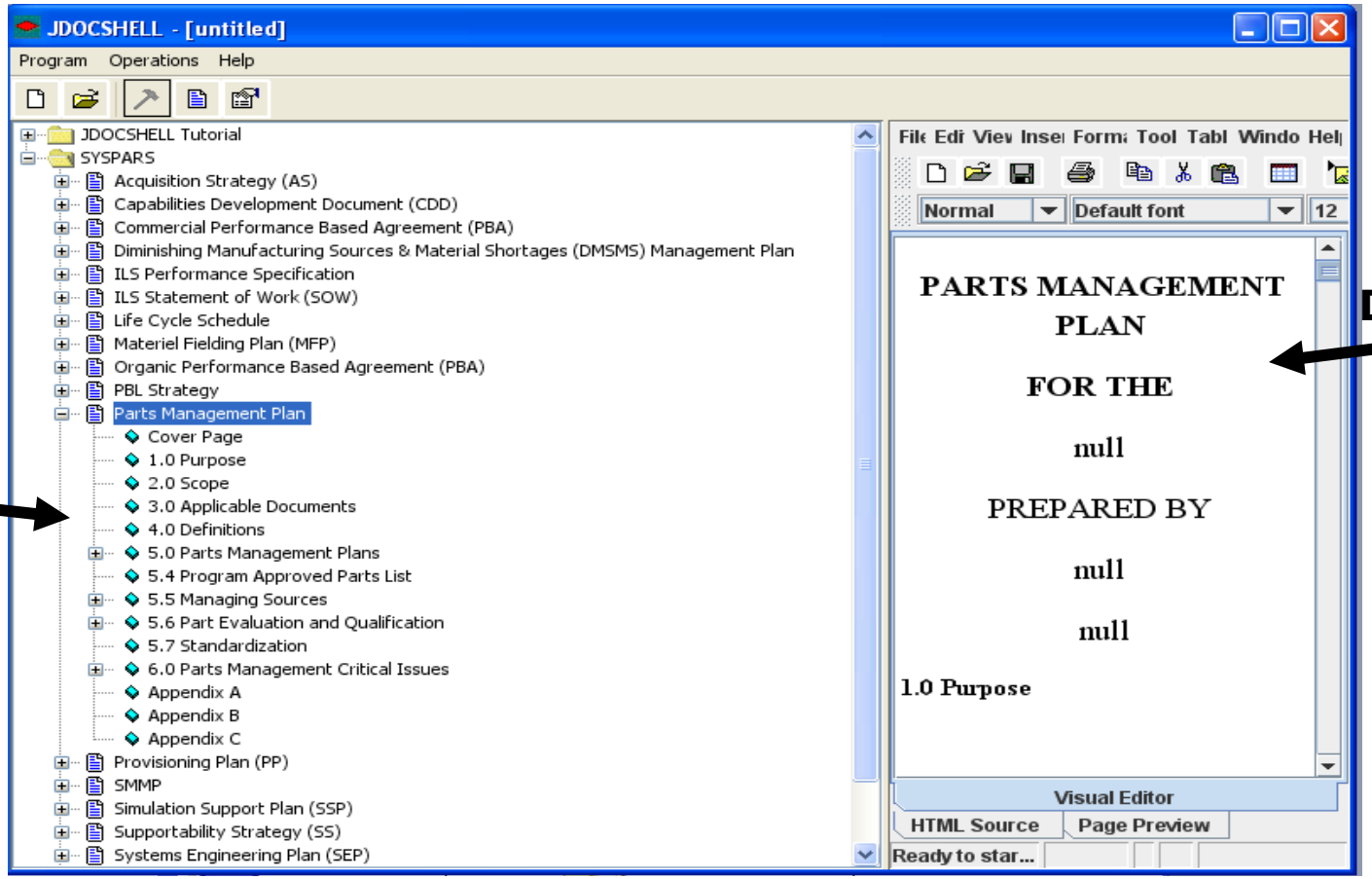


Parts Management Plan Road Ahead

- **Alfa Test version ready for review**
  - Questions have been distributed
- **Waiting on guidance from this distinguished group**
- **Subject Matter Expert (SME) reviews**
- **Need decision logic**
- **Incorporate SME comments**

- **Field beta test module**
- **Incorporate beta tester comments**
- **Release first version**
- **Sustain**

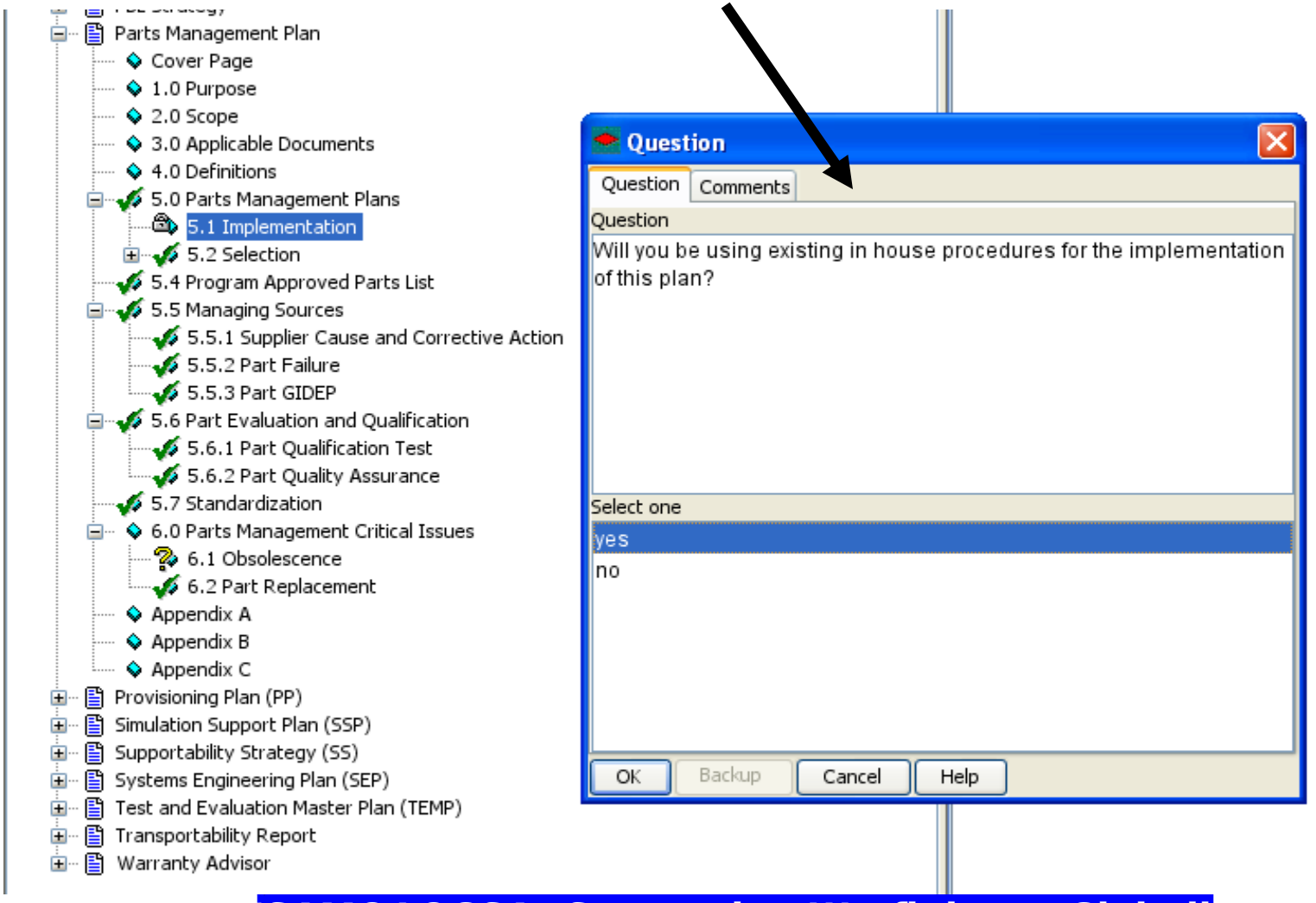
Current Development



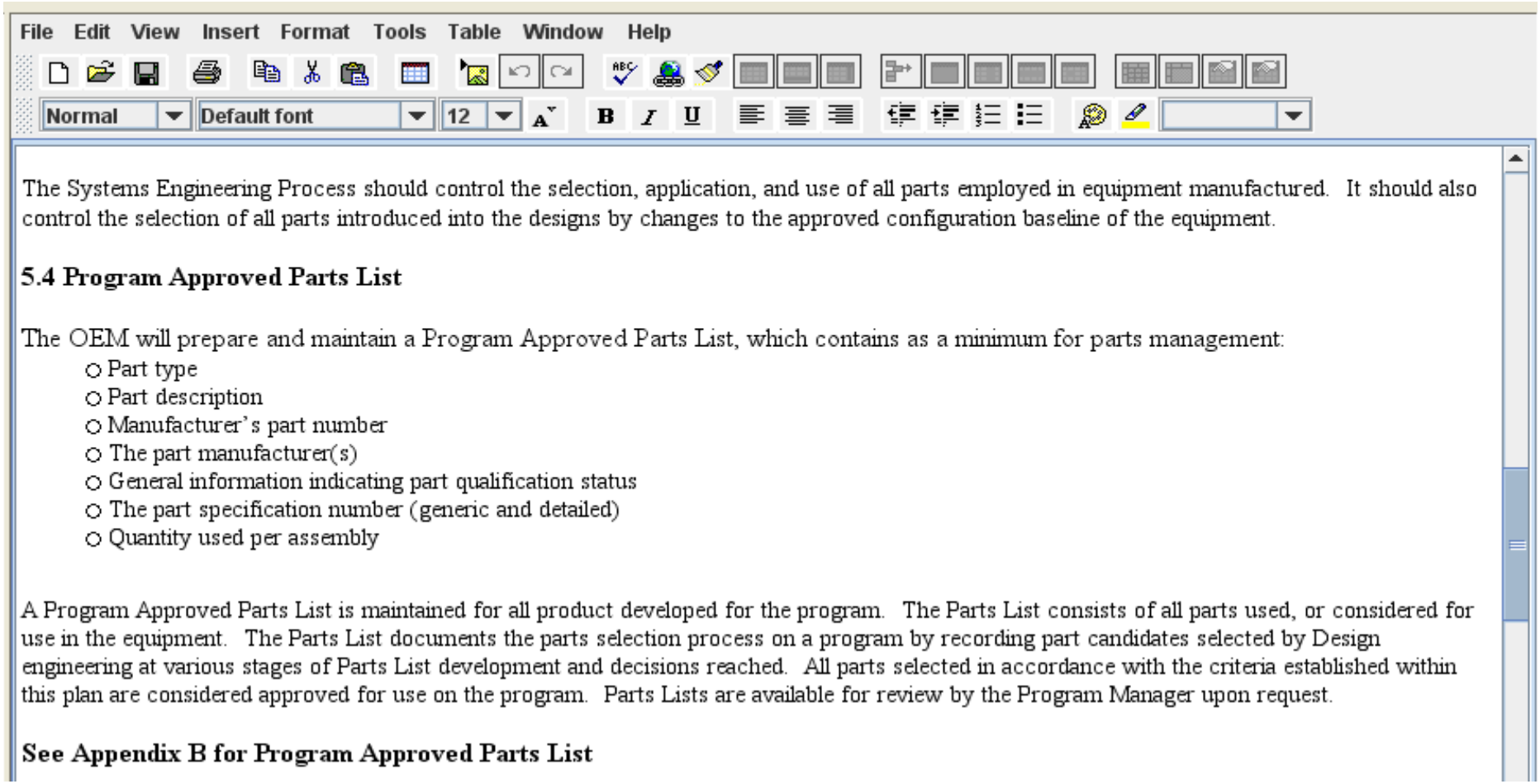
Outline

Document View

Decision Question



Text View



The Systems Engineering Process should control the selection, application, and use of all parts employed in equipment manufactured. It should also control the selection of all parts introduced into the designs by changes to the approved configuration baseline of the equipment.

5.4 Program Approved Parts List

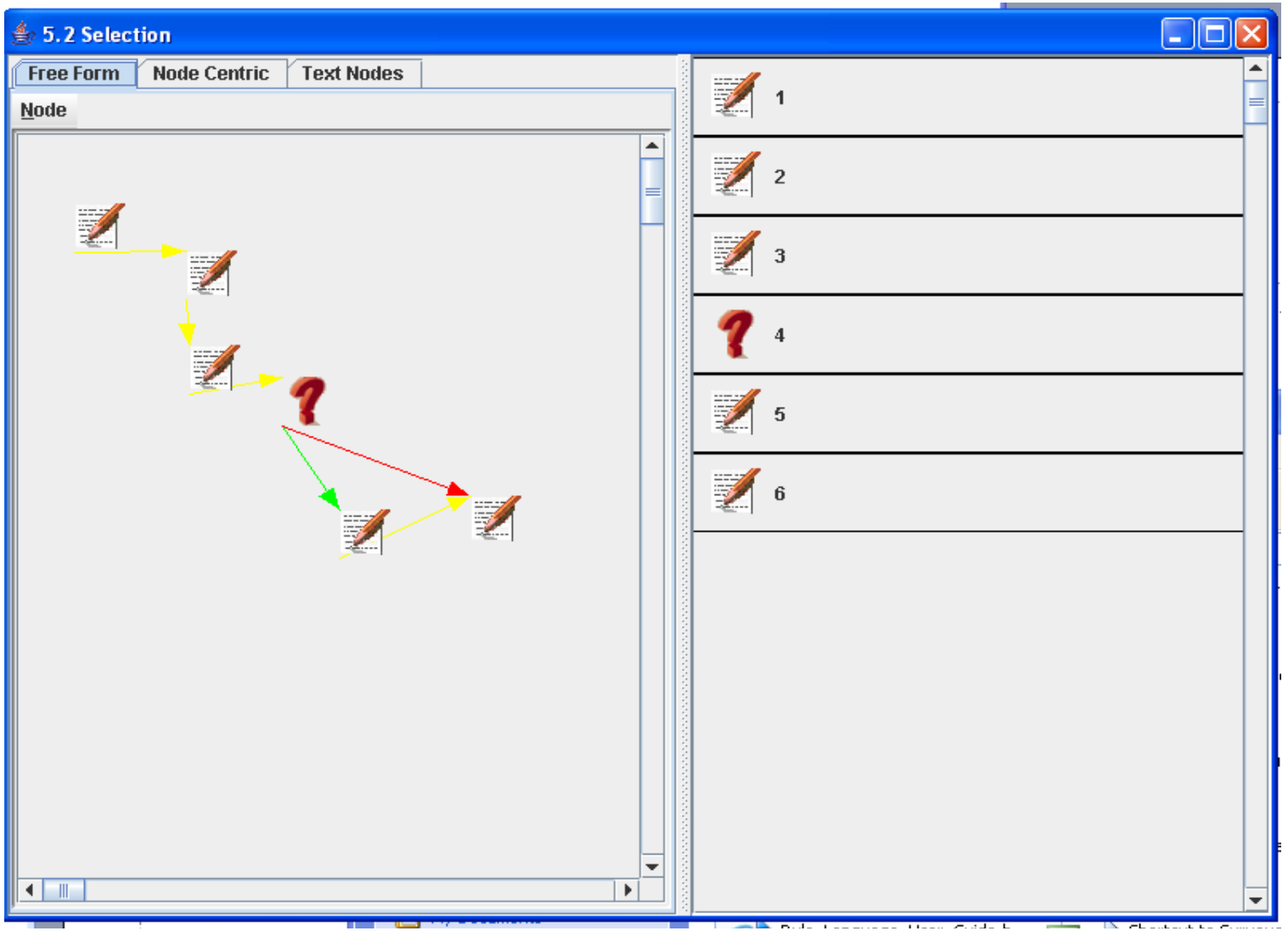
The OEM will prepare and maintain a Program Approved Parts List, which contains as a minimum for parts management:

- Part type
- Part description
- Manufacturer's part number
- The part manufacturer(s)
- General information indicating part qualification status
- The part specification number (generic and detailed)
- Quantity used per assembly

A Program Approved Parts List is maintained for all product developed for the program. The Parts List consists of all parts used, or considered for use in the equipment. The Parts List documents the parts selection process on a program by recording part candidates selected by Design engineering at various stages of Parts List development and decisions reached. All parts selected in accordance with the criteria established within this plan are considered approved for use on the program. Parts Lists are available for review by the Program Manager upon request.

See Appendix B for Program Approved Parts List

Decision Tree in Knowledge Base Tool



Sustainment

- **If it is not supported; it will not be used**
  - Update knowledge base for new policy and with experience
- **Two support options**
  - **Option one**
    - **Central funding + access to service SMEs**
  - **Option two**
    - **Service funding + access to service SMEs**
- **Bottom line**
  - Must be updated to stay meaningful
  - Remember Harvard Graphics, Lotus 1-2-3, Wordstar

Summary

SYSPARS…

- **is widely accepted**
- **promotes preferred business practices**
- **helps enforce policy**
- **is fully supported**
- **is adaptable, flexible, extensible**
- **works**

Questions ?
https://www.logsa.army.mil/lec/syspars/